	Fig. S1. Assignment of MALDI Peptide Mass Map	to the MC against product (rig. 6A).	A. Sequences detected by MALDI analysis of the	MC product are underlined. Twenty-five tryptic	peptide masses were assigned to the amino acid	sequence of the MC protein, corresponding to	sequence coverage of 49%. Amino acids matching	the C-tag protein are in italic. The double	underlined peptide (ISEFGSTSR - amino acids	388–396) contains the BIL splice site between	amino acids Ser393 and Thr394.		B. Measured and calculated masses for tryofic	peotides which identify the 50.6 kD MC protein								EGR			GQLVTYNG	IGQLVTYNGKTYK	
VAATGDGPDI 60 VEALSLIYNK 120 KYENGKYDIK 180 WAMSNIDTSK 240 LEAVNKDKPL 300 AASGRQTVDE 360 TNPGVSAWQV 420 TNPGVSAWQV 420							VGK									AASPNK	ΊΚ			똕		NUNNNNNNTGI	NNLGIEGR		GVSAWQVNTAYTA	GVSAWQVNTAYTA	ALWOLO
PDKLEEKFPQ VA NGKLIAYPIA VE LIAADGGYAF KY GETAMTINGP WA LENYLLTDEG LE WYAVRTAVIN AA GLTGLNSGLL TN				a line	GK	LVIWINGDK	LVIWINGDKGYNGLAEVGK	KFEKDTGIK		VTVEHPDKLEEK	LYPFTWDAVR	TWEEIPALDK	TWEEIPALDKELK	AGLTFLVDLIK	YENGKYDIK	GQPSKPFVGVLSAGINAASPNK	EFLENYLLTDEGLEAVNK	DKPLGAVALK	SYEEELAKDPR	GEIMPNIPQMSAFWYAVR	TAVINAASGR	QTVDEALKDAQTNSSSNNNNNNNNLGIEGR	DAQTNSSSNNNNNNNNLGIEGR	SEFGSTSR	/DCGGLTGLNSGLTTNPGVSAWQVNTAYTAGQLVTYNG	VDCGGLTGLNSGLTTNPGVSAWQVNTAYTAGQLVTYNGKTYK	JLQPHTSLAGWEPSNVPALWQLQ
DTGIKVTVEH YPFTWDAVRY NLQEPYFTWP YSIAEAAFNK SPNKELAKEF MPNIPQMSAF FGSITSRVDCG		Mass	uracy	36 MK	18 TEEGK	0 LVI	64 LVI	0 KFE	24 FEK	VTV 607	39 LYP			8 AGL					7 SYE	9 GEI	10 TAV	277 QTV		71 ISE	10 VDCG		53 CLQ1
LAEVGKKFEK TPDKAFQDKL KAKGKSALMF KNKHMNADTD GVLSAGINAA GVLSAGINAA GVLGIEGRISE NIGIEGRISE OPHTSLAGWE		+H]+	ured	78.14	563.26	1057.60	2046.23	65	423.21	22.73	1267.60	1201.60	1571.82	1189.71	\sim	ന	on .	_	m	110.01	u,	458.61	575.41	983.55	35.88	78.21	633.14
MINGDKGYNG YAQSGLLAEI EEIPALDKEL AGLTFLVDLI FKGQPSKPFV ELAKDPRIAA SINNNNNNNNN	,	7	area	8.15	.27	7.60	6.10	. 59	3.22	23.74	7.65	1.61	.83		.55	.16	. 04	1.62	.64	0.03	59.5	459.5	575.11	983.48	985.92 a 3	378.13 ª 4	
A I FWAHDREGG I FWAHDREGG DLLPNPPKIW DVGVDNAGAK VNYGVTVLPT GAVALKSYEE ALKDAQINSS NTAYTAGQLV	8	(rosition r	; 	-7	-16	-26	7-35	8-30	6-47	66-0	9-138	9-141	-	2-180	3-274	9-296	7-306	7-317		6-35	6-387	64-38	-39	7-4	7-438	439-461 2

^a mass corresponds to peptide with an alkylated cysteine

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	9	120	180	240	300	360	420	480	540	541	
	VAATGDGPDI	VEALSLIYNK	KYENGKYDIK	WAWSNIDTSK	LEAVNKDKPL	AASGRQTVDE	dtlkvgdivw	pfyvpaqhgf	yvgklktwvh		
	LAEVGKKFEK DIGIKVIVEH PDKLEEKFPQ VAAIGDGPDI	NGKLIAYPIA	LIAADGGYAF	YSIAEAAFNK GETAMTINGP	LENYLLTDEG	WYAVRTAVIN		desllvtpgh	nltvdvghtf		
	DTGIKVTVEH	YPFTWDAVRY	NLQEPYFTWP	YSIAEAAFNK	SPNKELAKEF	MPNIPOMSAF	FGScfaagtm	kgkqengqae	elylpvgkty		
	LAEVGKKFEK	TPDKAFQDKL	KAKGKSALMF	KNKHMNADTD		TMENAQKGEI	NLGIEGRISE	tdqpiyr1kl	entsseves1		
	WINGDKGYNG	YAQSGLLAEI	EEIPALDKEL	DVGVDNAGAK AGLTFLVDLI	VNYGVTVLPT FKGQPSKPFV	ELAKDPRIAA	SNINNNNNNN	aaailathir	rlqsladgas		
4	MKTEEGKLVI	IFWAHDRFGG	DLLPNPPKTW	DVGVDNAGAK	VNYGVTVLPT	GAVALKSYEE	ALKDAQTNSS	skpegggkpf	vpvidlkpgd	디	

В				
	[M+H]+	[M+H] +	Mass	
Peptide	calculated	measured	accuracy	>
position	mass	mass	wdd	Sequence
535-541	897.4947	897.47	27.5	LKTWVHN
537-541	656.3156	56.25	6.66	TWVHN

Fig. S2. MALDI peptide mapping of the 59.3 kD MB protein (Fig. 6A).

A. Underlined sequences correspond to peptides detected by MALDI. Uppercase letters match amino acids of the M-tag and lowercase letters match those of the BIL domain. Note that the C-terminus of the protein, Asn 541, is the penultimate C-terminal residue of the BIL sequence (Fig. 4).

B. Measured and calculated molecular masses of the two C-terminal peptides.